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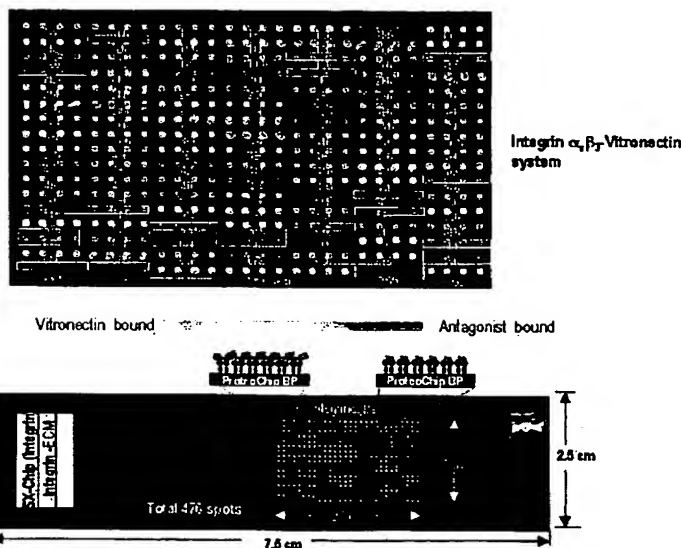
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(54) Title: HIGH-THROUGHPUT SCREENING METHOD FOR INTEGRIN ANTAGONIST AND NEW PEPTIDE SCREENED THEREFROM



(57) Abstract: The present invention relates to the screening method of antagonistic material of integrin using the protein chip and useful peptides screened thereby. The protein chip used in the present invention is unique substrate coated with new material, calixarene derivative, which can keep uniform and high activities of proteins. Integrin receptor protein is arrayed high densely on the chip, and materials (protein, peptide, small molecules and so on) specifically inhibiting the binding of ligand can be screened therewith. The integrins used in the present invention are integrin $\alpha_v\beta_3$ and integrin $\alpha_{IIb}\beta_3$, and new antagonistic peptides screened from peptide library have high binding affinity.

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